

**USE OF ARRAYS OF ATOMIC FORCE MICROSCOPE/ SCANNING TUNNELING
MICROSCOPE TIPS TO SCAN NANOCODES**

ABSTRACT OF THE INVENTION

A surface analysis device is disclosed for identifying molecules by simultaneously scanning nanocodes on a surface of a substrate. The device includes a scanning array that is capable of simultaneously scanning the nanocodes on the surface of the substrate and an analyzer that is coupled with the scanning array. The analyzer is capable of receiving simultaneously scanned information from the scanning array and identifying molecules associated with the nanocodes.